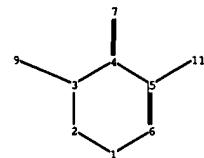
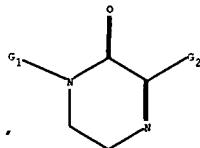


Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1438	(544/405).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/12/18 17:11
L2	406	(544/408).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/12/18 17:11
L3	0	(514/252.10).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/12/18 17:39
L4	59	Joseph.inv. and Armand.inv. and Picard.inv.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/12/18 17:12
L5	327	(514/252.1).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/12/18 17:39

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1438	(544/405).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/12/18 17:11
L2	406	(544/408).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/12/18 17:11
L3	0	(514/252.10).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/12/18 17:39
L4	59	Joseph.inv. and Armand.inv. and Picard.inv.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/12/18 17:12
L5	327	(514/252.1).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/12/18 17:39



chain nodes :

7 9 11

ring nodes :

1 2 3 4 5 , 6

chain bonds :

3-9 4-7 5-11

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

1-2 1-6 2-3 3-4 3-9 4-5 4-7 5-6 5-11

isolated ring systems :

containing 1 :

G1:C,O,S,N

G2:Cy,Ak

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: ssspta1611bxv

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * * * * * * Welcome to STN International * * * * * * * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY
NEWS 4 OCT 03 MATHDI removed from STN
NEWS 5 OCT 04 CA/CAplus-Canadian Intellectual Property Office (CIPO) added to core patent offices
NEWS 6 OCT 13 New CAS Information Use Policies Effective October 17, 2005
NEWS 7 OCT 17 STN(R) Anavist(TM), Version 1.01, allows the export/download of CAplus documents for use in third-party analysis and visualization tools
NEWS 8 OCT 27 Free KWIC format extended in full-text databases
NEWS 9 OCT 27 DIOGENES content streamlined
NEWS 10 OCT 27 EPFULL enhanced with additional content
NEWS 11 NOV 14 CA/CAplus - Expanded coverage of German academic research
NEWS 12 NOV 30 REGISTRY/ZREGISTRY on STN(R) enhanced with experimental spectral property data
NEWS 13 DEC 05 CASREACT(R) - Over 10 million reactions available
NEWS 14 DEC 14 2006 MeSH terms loaded in MEDLINE/LMEDLINE
NEWS 15 DEC 14 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER
NEWS 16 DEC 14 CA/CAplus to be enhanced with updated IPC codes
NEWS 17 DEC 16 MARPATprev will be removed from STN on December 31, 2005

NEWS EXPRESS DECEMBER 02 CURRENT VERSION FOR WINDOWS IS V8.01,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 02 DECEMBER 2005.
V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT
<http://download.cas.org/express/v8.0-Discover/>

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10/634,713

FILE 'HOME' ENTERED AT 16:47:48 ON 18 DEC 2005

=> file reg

COST IN U.S. DOLLARS
FULL ESTIMATED COST

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
| 0.21 | 0.21 |

FILE 'REGISTRY' ENTERED AT 16:47:53 ON 18 DEC 2005
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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

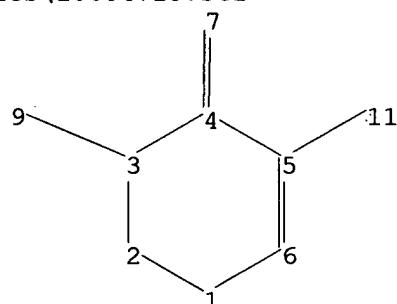
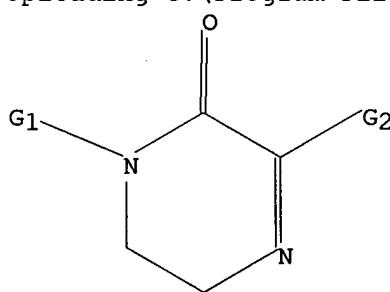
Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10634713.str



chain nodes :

7 9 11

ring nodes :

10/634,713

1 2 3 4 5 6
chain bonds :
3-9 4-7 5-11
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 ..
exact/norm bonds :
1-2 1-6 2-3 3-4 3-9 4-5 4-7 5-6 5-11
isolated ring systems :
containing 1 :

G1:C,O,S,N

G2:Cy,Ak

Match level :

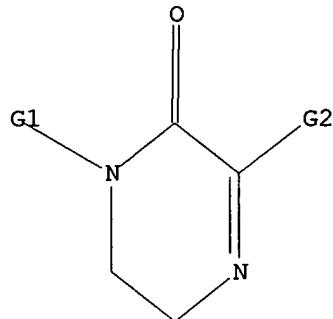
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



G1 C,O,S,N

G2 Cy,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s 11 sss sam

SAMPLE SEARCH INITIATED 16:48:31 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 6424 TO ITERATE

31.1% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

1 ANSWERS

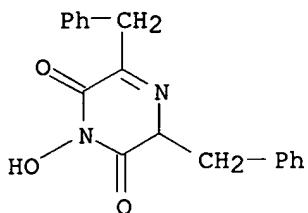
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 123675 TO 133285
PROJECTED ANSWERS: 1 TO 171

L2 1 SEA SSS SAM L1

10/634,713

=> d scan

L2 1 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-3,5-bis(phenylmethyl)- (9CI)
MF C18 H16 N2 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> s 11 sss ful

FULL SEARCH INITIATED 16:48:49 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 128915 TO ITERATE

100.0% PROCESSED 128915 ITERATIONS 59 ANSWERS
SEARCH TIME: 00.00.02

L3 59 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 161.76 161.97

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FILE COVERS 1907 - 18 Dec 2005 VOL 143 ISS 26
FILE LAST UPDATED: 16 Dec 2005 (20051216/ED)

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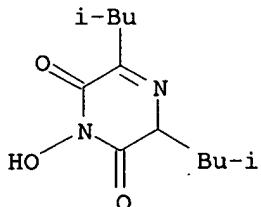
10/634,713

<http://www.cas.org/infopolicy.html>

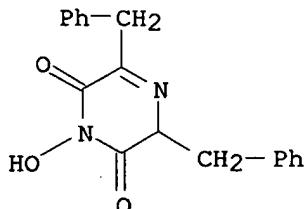
=> s 13
L4 24 L3

=> d 14 1-24 bib hitstr

L4 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2005:199486 CAPLUS
DN 142:441277
TI QSAR for anti-RNA-virus activity, synthesis, and assay of anti-RSV carbonucleosides given a unified representation of spectral moments, quadratic, and topologic indices
AU Gonzalez-Diaz, Humberto; Cruz-Monteagudo, Maykel; Vina, Dolores; Santana, Lourdes; Uriarte, Eugenio; De Clercq, Erik
CS Department of Organic Chemistry, Faculty of Pharmacy, University of Santiago de Compostela, 15782, Spain
SO Bioorganic & Medicinal Chemistry Letters (2005), 15(6), 1651-1657
CODEN: BMCLE8; ISSN: 0960-894X
PB Elsevier B.V.
DT Journal
LA English
IT 851070-89-8 851070-90-1 851070-91-2
851070-92-3 851070-93-4 851070-94-5
851070-95-6
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (QSAR for anti-RNA-virus activity, synthesis, and assay of anti-RSV carbonucleosides)
RN 851070-89-8 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-3,5-bis(2-methylpropyl)- (9CI) (CA INDEX NAME)

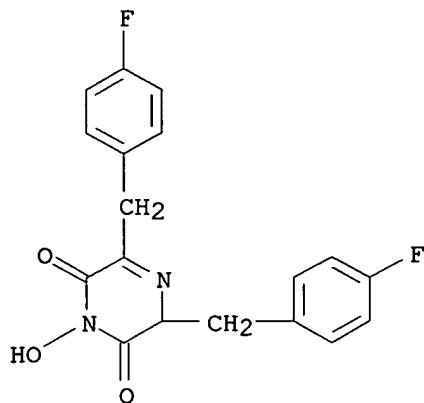


RN 851070-90-1 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-3,5-bis(phenylmethyl)- (9CI) (CA INDEX NAME)



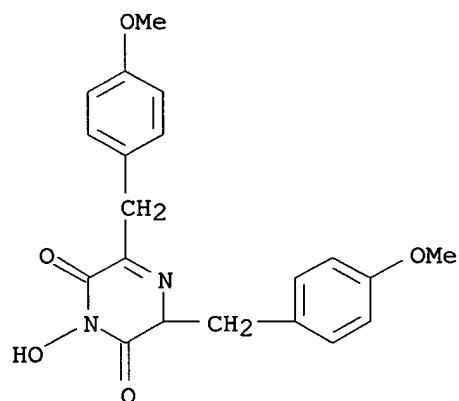
RN 851070-91-2 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 3,5-bis[(4-fluorophenyl)methyl]-1-hydroxy- (9CI)

(CA INDEX NAME)



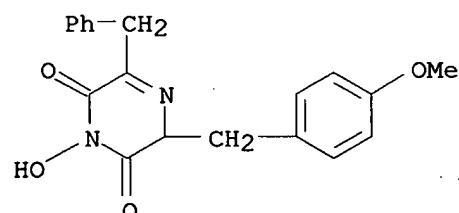
RN 851070-92-3 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-3,5-bis[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)



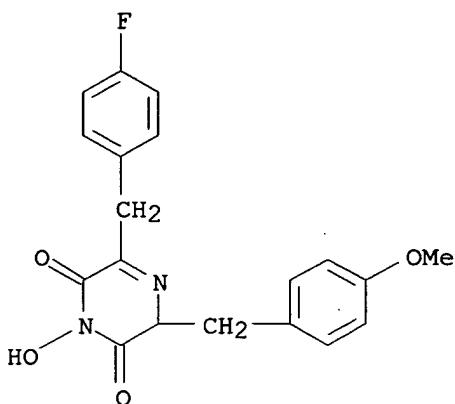
RN 851070-93-4 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-3-[(4-methoxyphenyl)methyl]-5- (phenylmethyl)- (9CI) (CA INDEX NAME)



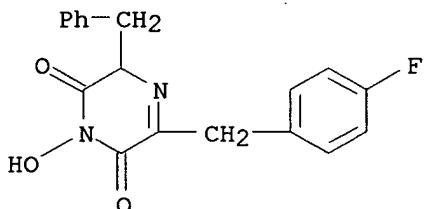
RN 851070-94-5 CAPLUS

CN 2,6(1H,5H)-Pyrazinedione, 3-[(4-fluorophenyl)methyl]-1-hydroxy-5- [(4-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)



RN 851070-95-6 CAPLUS

CN 2,6(1H,5H)-Pyrazinedione, 3-[(4-fluorophenyl)methyl]-1-hydroxy-5-(phenylmethyl)- (9CI) (CA INDEX NAME)



RE.CNT 80 THERE ARE 80 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:867332 CAPLUS

DN 140:94177

TI Synthesis of marine bisindole alkaloids, hamacanthins A and B through intramolecular transamidation-cyclization

AU Kawasaki, Tomomi; Kouko, Takashi; Totsuka, Hiromi; Hiramatsu, Kei

CS Meiji Pharmaceutical University, Kiyose, Tokyo, 204-8588, Japan

SO Tetrahedron Letters (2003), 44(49), 8849-8852

CODEN: TELEAY; ISSN: 0040-4039

PB Elsevier Science B.V.

DT Journal

LA English

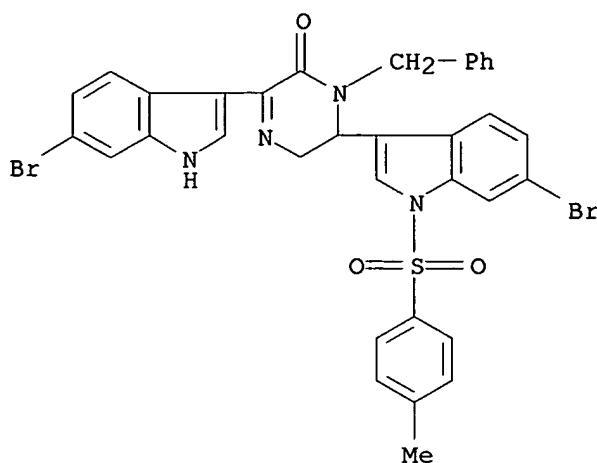
OS CASREACT 140:94177

IT **642492-82-8P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of marine bisindole alkaloids, hamacanthins A and B through
intramol. transamidation-cyclization)

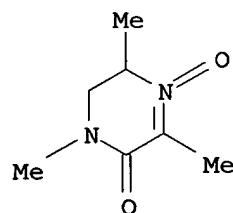
RN 642492-82-8 CAPLUS

CN 1H-Indole, 6-bromo-3-[5-(6-bromo-1H-indol-3-yl)-1,2,3,6-tetrahydro-6-oxo-1-(phenylmethyl)pyrazinyl]-1-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)



RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2003:388760 CAPLUS
DN 139:133535
TI α -Keto amides as precursors to heterocycles-generation and cycloaddition reactions of piperazin-5-one nitrones
AU Heaney, Frances; Fenlon, Julie; McArdle, Patrick; Cunningham, Desmond
CS Department of Chemistry, The National University of Ireland, Maynooth, Ire.
SO Organic & Biomolecular Chemistry (2003), 1(7), 1122-1132
CODEN: OBCRAK; ISSN: 1477-0520
PB Royal Society of Chemistry
DT Journal
LA English
OS CASREACT 139:133535
IT 566155-32-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
RN 566155-32-6 CAPLUS
CN 2(1H)-Pyrazinone, 5,6-dihydro-1,3,5-trimethyl-, 4-oxide (9CI) (CA INDEX NAME)

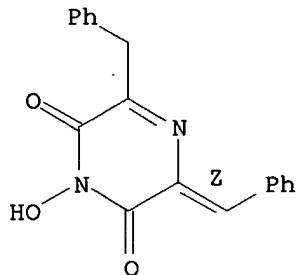


RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 24 CAPIUS COPYRIGHT 2005 ACS on STN

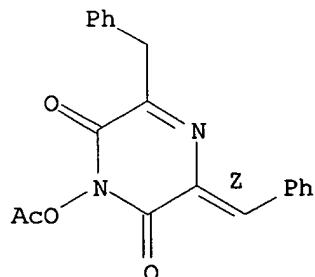
AN 2003:24867 CAPLUS
 DN 138:217962
 TI A new 1-hydroxy-2,6-pyrazinedione associated with hypovirulent isolates of Sclerotinia minor
 AU Savard, M. E.; Melzer, M. S.; Boland, G. J.; Bensimon, C.; Blackwell, B. A.
 CS Research Branch, Agriculture and Agri-Food Canada, ECORC, Ottawa, ON, K1A 0C6, Can.
 SO Journal of Natural Products (2003), 66(2), 306-309
 CODEN: JNPRDF; ISSN: 0163-3864
 PB American Chemical Society
 DT Journal
 LA English
 IT 500876-24-4P, Sclerominol
 RL: BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation)
 (new 1-hydroxy-2,6-pyrazinedione associated with hypovirulent isolates of Sclerotinia minor)
 RN 500876-24-4 CAPLUS
 CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-5-(phenylmethyl)-3-(phenylmethylen)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 500876-26-6P, Sclerominol acetate 500876-28-8P,
 Sclerominol p-bromobenzoate
 RL: PRP (Properties); PUR (Purification or recovery); SPN (Synthetic preparation); PREP (Preparation)
 (new 1-hydroxy-2,6-pyrazinedione associated with hypovirulent isolates of Sclerotinia minor)
 RN 500876-26-6 CAPLUS
 CN 2,6(1H,3H)-Pyrazinedione, 1-(acetoxy)-5-(phenylmethyl)-3-(phenylmethylen)-, (3Z)- (9CI) (CA INDEX NAME)

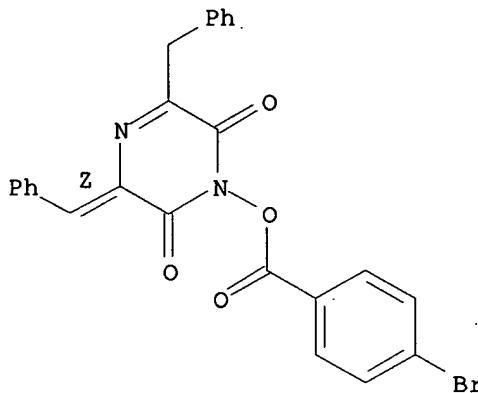
Double bond geometry as shown.



RN 500876-28-8 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 1-[(4-bromobenzoyl)oxy]-5-(phenylmethyl)-3-(phenylmethylen)-, (3Z)- (9CI) (CA INDEX NAME)

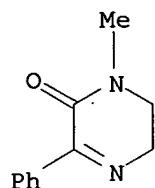
Double bond geometry as shown.



RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

| L4 | ANSWER 5 OF 24 | CAPLUS | COPYRIGHT 2005 ACS on STN |
|---|--|----------|---------------------------|
| AN | 2002:368461 | CAPLUS | |
| DN | 136:369741 | | |
| TI | A novel method for preparation of piperazine and its derivatives | | |
| IN | Sebastian, Sonny; Patel, Hetal Virendra; Thennati, Rajamannar | | |
| PA | Sun Pharmaceutical Industries Ltd., India | | |
| SO | PCT Int. Appl., 23 pp.
CODEN: PIXXD2 | | |
| DT | Patent | | |
| LA | English | | |
| FAN.CNT 1 | | | |
| PATENT NO. | KIND | DATE | APPLICATION NO. |
| ----- | ----- | ----- | ----- |
| PI WO 2002038552 | A1 | 20020516 | WO 2001-IN129 20010629 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | |
| IN 190478 | A | 20030802 | IN 2000-MU994 20001107 |
| AU 2001078669 | A5 | 20020521 | AU 2001-78669 20010629 |
| BE 1013317 | A6 | 20011106 | BE 2001-513 20010727 |
| CH 692342 | A | 20020515 | CH 2001-1428 20010802 |
| US 2002095038 | A1 | 20020718 | US 2001-37309 20011025 |
| US 6603003 | B2 | 20030805 | |
| PRAI IN 2000-MU994 | A | 20001107 | |
| WO 2001-IN129 | W | 20010629 | |
| OS CASREACT 136:369741; MARPAT 136:369741 | | | |
| IT 91350-29-7P | | | |
| RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) | | | |
| (preparation of piperazine derivs. as starting materials for preparation of pharmaceutically active compds.) | | | |

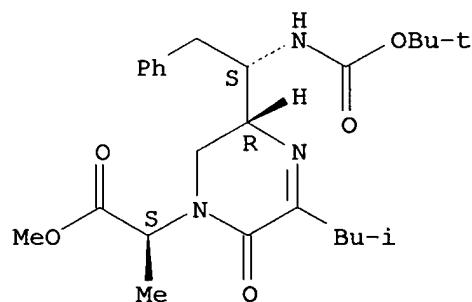
RN 91350-29-7 CAPLUS
 CN 2(1H)-Pyrazinone, 5,6-dihydro-1-methyl-3-phenyl- (7CI, 9CI) (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

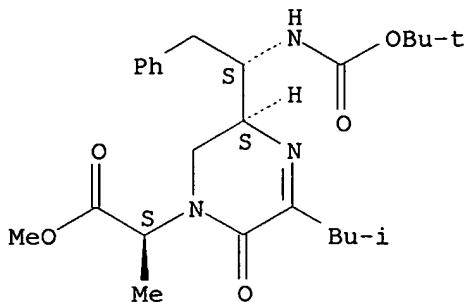
L4 ANSWER 6 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2002:319298 CAPLUS
 DN 137:47433
 TI 2-Oxopiperazine-Based γ -Turn Conformationally Constrained Peptides:
 Synthesis of CCK-4 Analogues
 AU Herrero, Susana; Garcia-Lopez, M. Teresa; Latorre, Miriam;
 Cenarruzabeitia, Edurne; Del Rio, Joaquin; Herranz, Rosario
 CS Instituto de Quimica Medica, CSIC, Madrid, 28006, Spain
 SO Journal of Organic Chemistry (2002), 67(11), 3866-3873
 CODEN: JOCEAH; ISSN: 0022-3263
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 137:47433
 IT 438579-70-5P 438579-71-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of γ -turn mimetics based on oxopiperazine derivs. and
 cholecystokinin tetrapeptides containing them)
 RN 438579-70-5 CAPLUS
 CN 1(2H)-Pyrazineacetic acid, 5-[(1S)-1-[(1,1-dimethylethoxy)carbonyl]amino]-
 2-phenylethyl]-5,6-dihydro- α -methyl-3-(2-methylpropyl)-2-oxo-,
 methyl ester, (α S,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 438579-71-6 CAPLUS
 CN 1(2H)-Pyrazineacetic acid, 5-[(1S)-1-[(1,1-dimethylethoxy)carbonyl]amino]-
 2-phenylethyl]-5,6-dihydro- α -methyl-3-(2-methylpropyl)-2-oxo-,
 methyl ester, (α S,5S)- (9CI) (CA INDEX NAME)

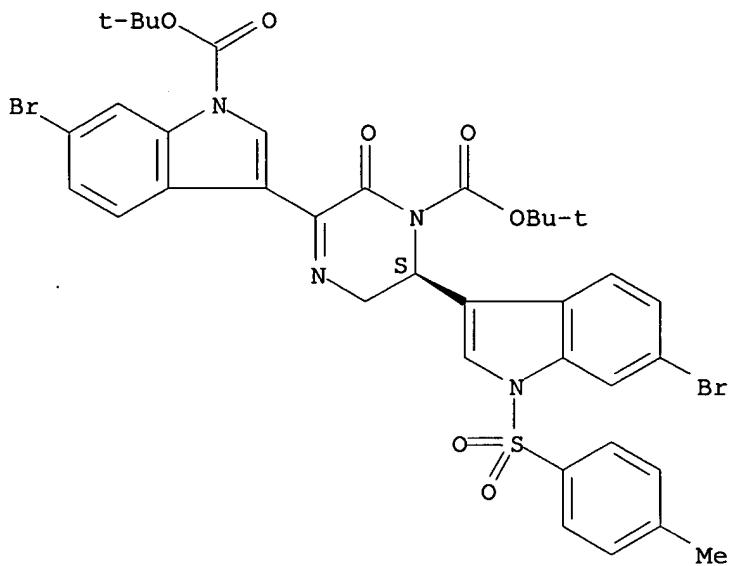
Absolute stereochemistry.



RE.CNT 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

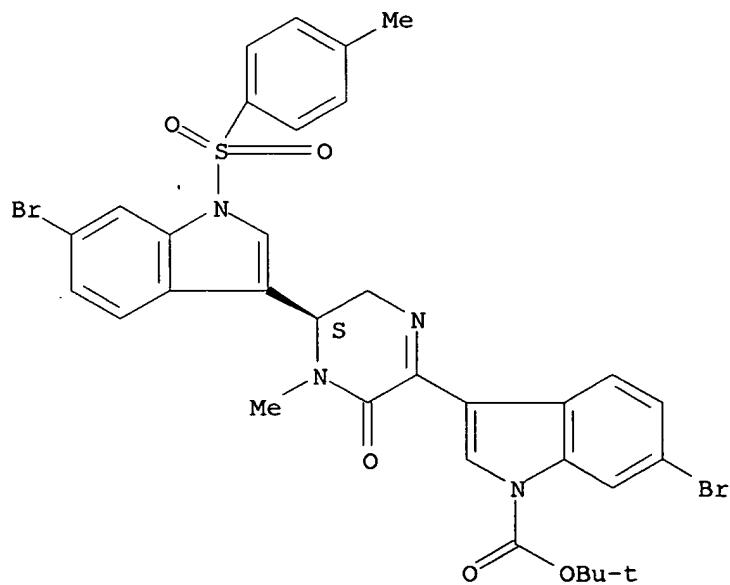
L4 ANSWER 7 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2002:287787 CAPLUS
 DN 137:201470
 TI Asymmetric aminohydroxylation of vinyl indoles: a short enantioselective synthesis of the bisindole alkaloids dihydrohamacanthin A and dragmacidin A
 AU Yang, Cai-Guang; Wang, Jun; Tang, Xiao-Xia; Jiang, Biao
 CS Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, Shanghai, 200032, Peop. Rep. China
 SO Tetrahedron: Asymmetry (2002), 13(4), 383-394
 CODEN: TASYE3; ISSN: 0957-4166
 PB Elsevier Science Ltd.
 DT Journal
 LA English
 OS CASREACT 137:201470
 IT 452305-72-5P
 RL: BYP (Byproduct); PREP (Preparation)
 (asym. synthesis of bisindole alkaloids dihydrohamacanthin A and dragmacidin A via the asym. aminohydroxylation of vinyl indoles)
 RN 452305-72-5 CAPLUS
 CN 1H-Indole-1-carboxylic acid, 6-bromo-3-[(5S)-5-[6-bromo-1-[(4-methylphenyl)sulfonyl]-1H-indol-3-yl]-4-[(1,1-dimethylethoxy)carbonyl]-3,4,5,6-tetrahydro-3-oxopyrazinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



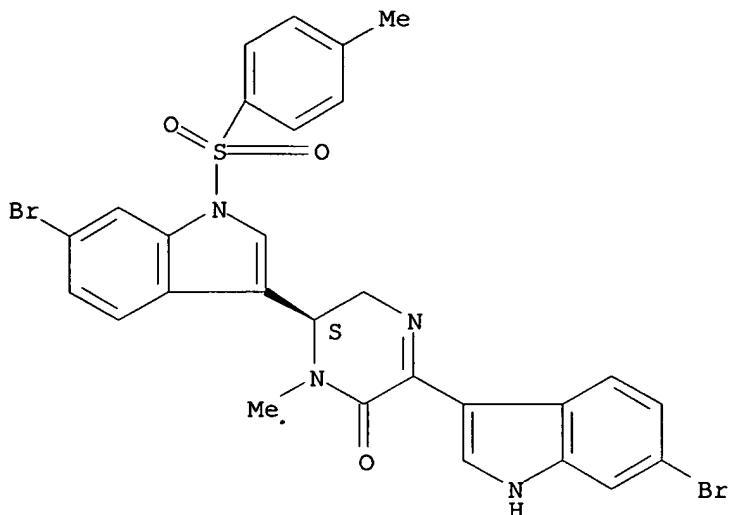
IT 452305-74-7P 452305-75-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (asym. synthesis of bisindole alkaloids dihydrohamacanthin A and dragmacidin A via the asym. aminohydroxylation of vinyl indoles)
 RN 452305-74-7 CAPLUS
 CN 1H-Indole-1-carboxylic acid, 6-bromo-3-[(5S)-5-[6-bromo-1-[(4-methylphenyl)sulfonyl]-1H-indol-3-yl]-3,4,5,6-tetrahydro-4-methyl-3-oxopyrazinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 452305-75-8 CAPLUS
 CN 1H-Indole, 6-bromo-3-[(2S)-5-(6-bromo-1H-indol-3-yl)-1,2,3,6-tetrahydro-1-methyl-6-oxopyrazinyl]-1-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)

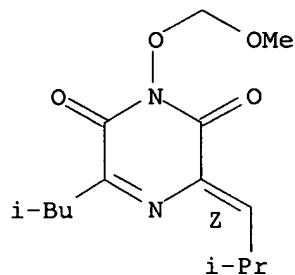
Absolute stereochemistry. Rotation (-).



RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2001:490015 CAPLUS
 DN 135:242042
 TI Synthesis of Natural Flutimide and Analogous Fully Substituted Pyrazine-2,6-diones, Endonuclease Inhibitors of Influenza Virus
 AU Singh, Sheo B.; Tomassini, Joanne E.
 CS Merck Research Laboratories, Rahway, NJ, 07065, USA
 SO Journal of Organic Chemistry (2001), 66(16), 5504-5516
 CODEN: JOCEAH; ISSN: 0022-3263
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 135:242042
 IT 162715-78-8P 179678-76-3P 179678-80-9P
 179678-84-3P 179678-91-2P 179678-96-7P
 179678-99-0P 179679-03-9P 360556-41-8P
 RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis of natural flutimide and analogs as endonuclease inhibitors of influenza virus)
 RN 162715-78-8 CAPLUS
 CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-5-(2-methylpropyl)-3-(2-methylpropylidene)-, (3Z)- (9CI) (CA INDEX NAME)

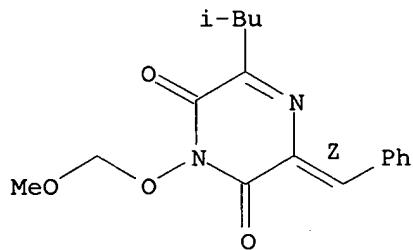
Double bond geometry as shown.



RN 179678-76-3 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-5-(2-methylpropyl)-3-(phenylmethylene)-, (3Z)- (9CI) (CA INDEX NAME)

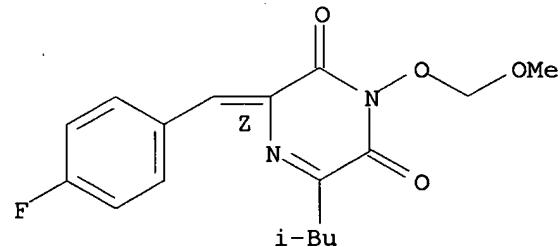
Double bond geometry as shown.



RN 179678-80-9 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 3-[(4-fluorophenyl)methylene]-1-(methoxymethoxy)-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

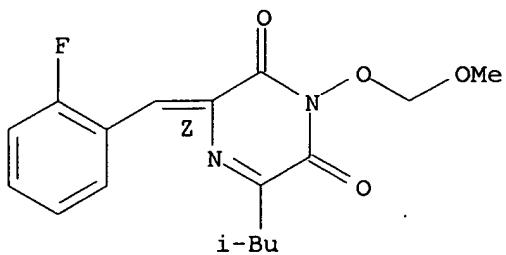
Double bond geometry as shown.



RN 179678-84-3 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 3-[(2-fluorophenyl)methylene]-1-(methoxymethoxy)-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

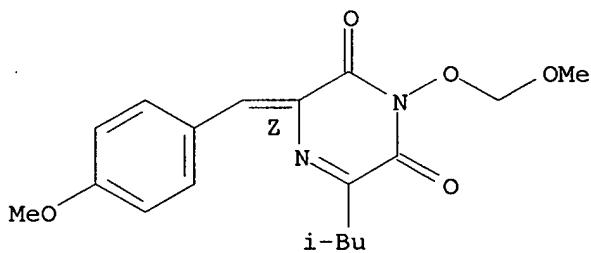
Double bond geometry as shown.



RN 179678-91-2 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-3-[(4-methoxyphenyl)methylene]-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

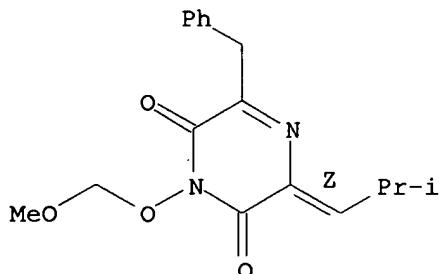
Double bond geometry as shown.



RN 179678-96-7 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-3-(2-methylpropylidene)-5-(phenylmethyl)-, (3Z)- (9CI) (CA INDEX NAME)

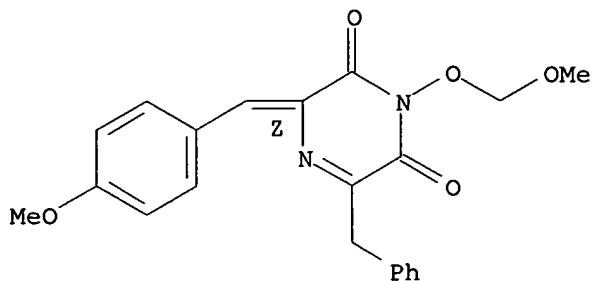
Double bond geometry as shown.



RN 179678-99-0 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-3-[(4-methoxyphenyl)methylene]-5-(phenylmethyl)-, (3Z)- (9CI) (CA INDEX NAME)

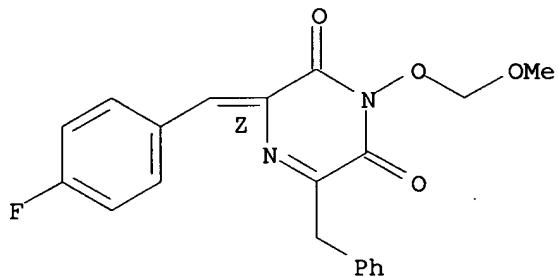
Double bond geometry as shown.



RN 179679-03-9 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 3-[(4-fluorophenyl)methylene]-1-(methoxymethoxy)-5-(phenylmethyl)-, (3Z)- (9CI) (CA INDEX NAME)

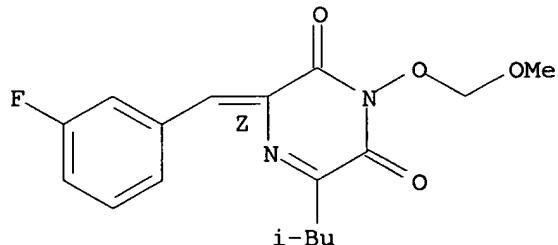
Double bond geometry as shown.



RN 360556-41-8 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 3-[(3-fluorophenyl)methylene]-1-(methoxymethoxy)-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 162666-34-4P, Flutimide 179678-77-4P

179678-81-0P 179678-85-4P 179678-92-3P

179679-00-6P 179679-04-0P 179679-05-1P

360556-42-9P

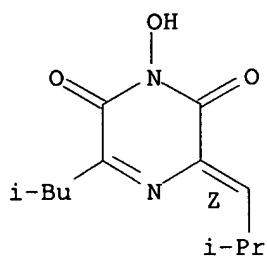
RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (synthesis of natural flutimide and analogs as endonuclease inhibitors of influenza virus)

RN 162666-34-4 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-5-(2-methylpropyl)-3-(2-methylpropylidene)-, (3Z)- (9CI) (CA INDEX NAME)

10/634,713

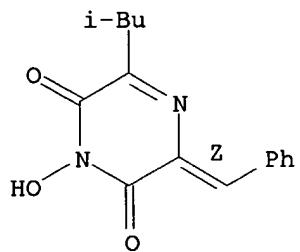
Double bond geometry as shown.



RN 179678-77-4 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-5-(2-methylpropyl)-3-(phenylmethylen)-, (3Z)- (9CI) (CA INDEX NAME)

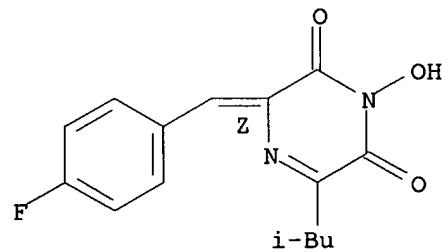
Double bond geometry as shown.



RN 179678-81-0 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 3-[(4-fluorophenyl)methylene]-1-hydroxy-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

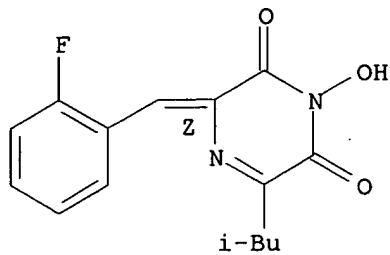
Double bond geometry as shown.



RN 179678-85-4 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 3-[(2-fluorophenyl)methylene]-1-hydroxy-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

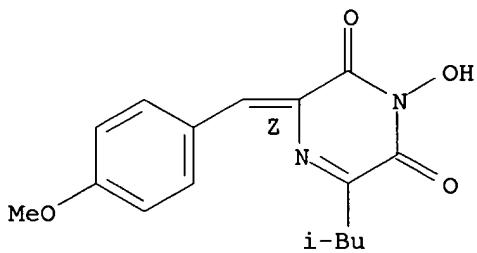
Double bond geometry as shown.



RN 179678-92-3 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-3-[(4-methoxyphenyl)methylene]-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

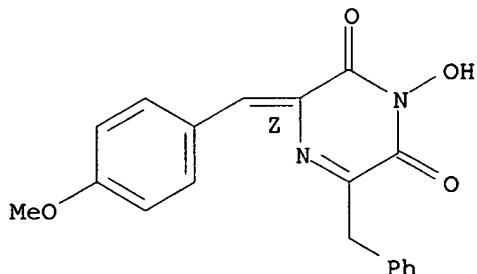
Double bond geometry as shown.



RN 179679-00-6 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-3-[(4-methoxyphenyl)methylene]-5-(phenylmethyl)-, (3Z)- (9CI) (CA INDEX NAME)

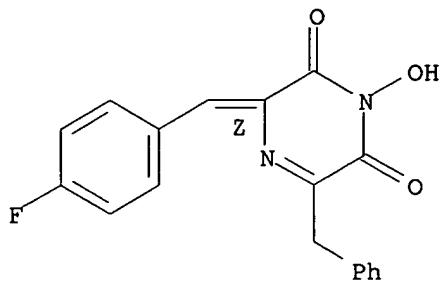
Double bond geometry as shown.



RN 179679-04-0 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 3-[(4-fluorophenyl)methylene]-1-hydroxy-5-(phenylmethyl)-, (3Z)- (9CI) (CA INDEX NAME)

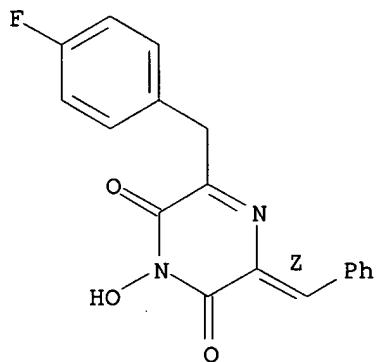
Double bond geometry as shown.



RN 179679-05-1 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 5-[(4-fluorophenyl)methyl]-1-hydroxy-3-(phenylmethylene)-, (3Z)- (9CI) (CA INDEX NAME)

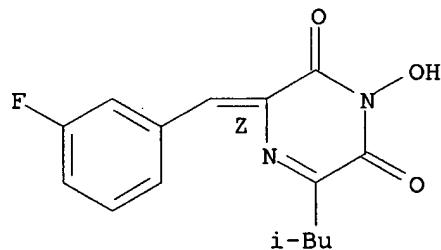
Double bond geometry as shown.



RN 360556-42-9 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 3-[(3-fluorophenyl)methylene]-1-hydroxy-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:122183 CAPLUS

DN 132:279031

TI Formal Total Synthesis of (-)-Balanol: Concise Approach to the Hexahydroazepine Segment Based on RCM

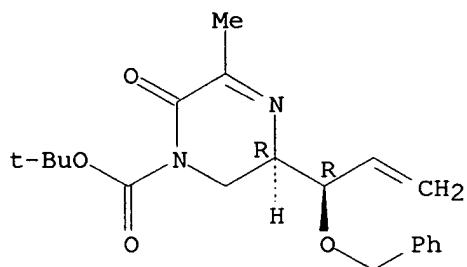
AU Fuerstner, Alois; Thiel, Oliver R.

CS Max-Planck-Institut fuer Kohlenforschung, Muelheim/Ruhr, D-45470, Germany

10/634,713

SO Journal of Organic Chemistry (2000), 65(6), 1738-1742
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 132:279031
IT **263889-24-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(formal total synthesis of (-)-balanol: concise approach to
hexahydroazepine segment based on ring closing alkene metathesis)
RN 263889-24-3 CAPLUS
CN 1(2H)-Pyrazinecarboxylic acid, 5,6-dihydro-3-methyl-2-oxo-5-[(1R)-1-
(phenylmethoxy)-2-propenyl]-, 1,1-dimethylethyl ester, (5R)- (9CI) (CA
INDEX NAME)

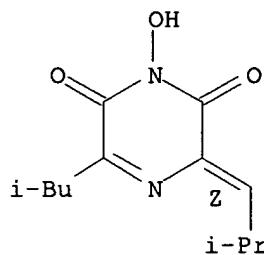
Absolute stereochemistry.



RE.CNT 58 THERE ARE 58 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

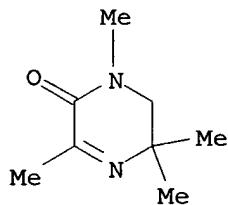
L4 ANSWER 10 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2000:34139 CAPLUS
DN 132:302789
TI Flutimide, Merck & Co Inc
AU Mossad, Sherif B.
CS Department of Infectious Disease, Cleveland Clinic Foundation, Cleveland,
OH, 44195, USA
SO Current Opinion in Anti-Infective Investigational Drugs (1999), 1(5),
615-617
CODEN: COADFY; ISSN: 1464-8458
PB Current Drugs Ltd.
DT Journal; General Review
LA English
IT **162666-34-4P**, Flutimide
RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or
effector, except adverse); BPR (Biological process); BSU (Biological
study, unclassified); PRP (Properties); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC
(Process); USES (Uses)
(pharmacol. of endonuclease inhibitor flutimide for treatment of
influenza virus infection)
RN 162666-34-4 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-5-(2-methylpropyl)-3-(2-
methylpropylidene)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

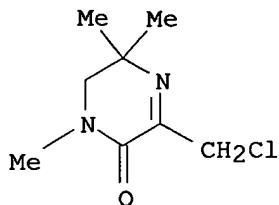


RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1998:23047 CAPLUS
 DN 128:127989
 TI Carbonyl and thiocarbonyl stabilized 1,4-dihydropyrazines: synthesis and characterization
 AU Brook, David J. R.; Noll, Bruce C.; Koch, Tad H.
 CS Department of Chemistry and Biochemistry, University of Colorado, Boulder, CO 80309-0215, USA
 SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1998), (2), 289-292
 CODEN: JCPRB4; ISSN: 0300-922X
 PB Royal Society of Chemistry
 DT Journal
 LA English
 OS CASREACT 128:127989
 IT **82043-99-0**
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation and properties of pyrazinobisoxazinedione analogs)
 RN 82043-99-0 CAPLUS
 CN 2(1H)-Pyrazinone, 5,6-dihydro-1,3,5,5-tetramethyl- (9CI) (CA INDEX NAME)

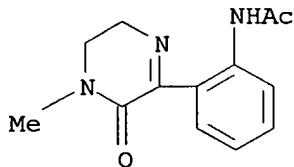


IT **201862-51-3P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and properties of pyrazinobisoxazinedione analogs)
 RN 201862-51-3 CAPLUS
 CN 2(1H)-Pyrazinone, 3-(chloromethyl)-5,6-dihydro-1,3,5,5-tetramethyl- (9CI) (CA INDEX NAME)



RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1997:493706 CAPLUS
 DN 127:190705
 TI Synthesis of 5H-pyrazino[2,3-b]indoles from indole-2,3-dione derivatives
 AU Bergman, Jan; Vallberg, Hans
 CS Department of Organic Chemistry, Royal Institute of Technology, Stockholm,
 S-100 44, Swed.
 SO Acta Chemica Scandinavica (1997), 51(6/7), 742-752
 CODEN: ACHSE7; ISSN: 0904-213X
 PB Munksgaard
 DT Journal
 LA English
 IT 193959-58-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of pyrazinoindoles from indoledione derivs.)
 RN 193959-58-9 CAPLUS
 CN Acetamide, N-[2-(3,4,5,6-tetrahydro-4-methyl-3-oxopyrazinyl)phenyl]- (9CI)
 (CA INDEX NAME)



RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

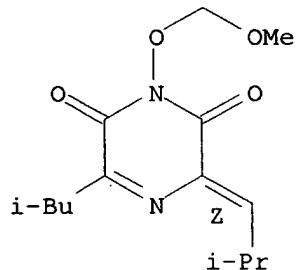
L4 ANSWER 13 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1996:483375 CAPLUS
 DN 125:142767
 TI Hydroxypyrazinedione endonuclease inhibitors
 IN Singh, Sheo Bux
 PA Merck and Co., Inc., USA
 SO Brit. UK Pat. Appl., 75 pp.
 CODEN: BAXXDU
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|------|----------|-----------------|----------|
| PI | GB 2294263 | A1 | 19960424 | GB 1995-20620 | 19951009 |
| | US 5624928 | A | 19970429 | US 1994-324557 | 19941018 |
| PRAI | US 1994-324557 | A | 19941018 | | |

10/634,713

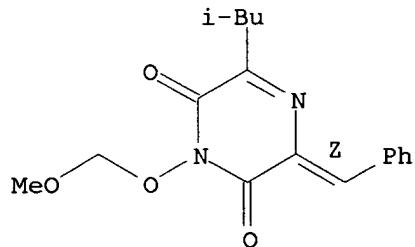
OS MARPAT 125:142767
IT 162715-78-8P 179678-76-3P 179678-80-9P
179678-81-0P 179678-84-3P 179678-91-2P
179678-96-7P 179678-99-0P 179679-03-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(hydroxypyrazinedione endonuclease inhibitors)
RN 162715-78-8 CAPPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-5-(2-methylpropyl)-3-(2-
methylpropylidene)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



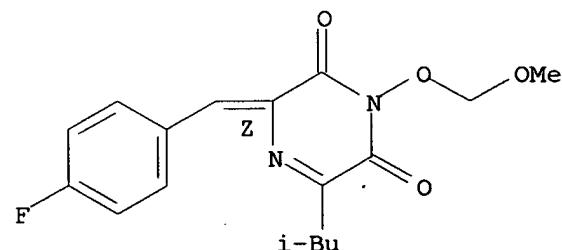
RN 179678-76-3 CAPPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-5-(2-methylpropyl)-3-(phenylmethylene)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 179678-80-9 CAPPLUS
CN 2,6(1H,3H)-Pyrazinedione, 3-[(4-fluorophenyl)methylene]-1-(methoxymethoxy)-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

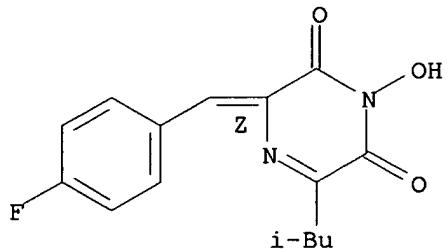
Double bond geometry as shown.



RN 179678-81-0 CAPPLUS
CN 2,6(1H,3H)-Pyrazinedione, 3-[(4-fluorophenyl)methylene]-1-hydroxy-5-(2-

methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

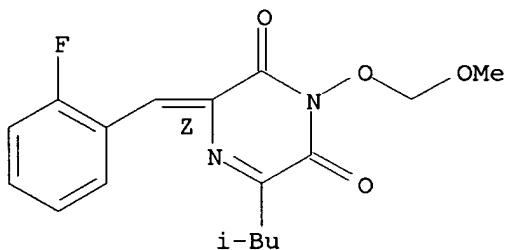
Double bond geometry as shown.



RN 179678-84-3 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 3-[(2-fluorophenyl)methylene]-1-(methoxymethoxy)-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

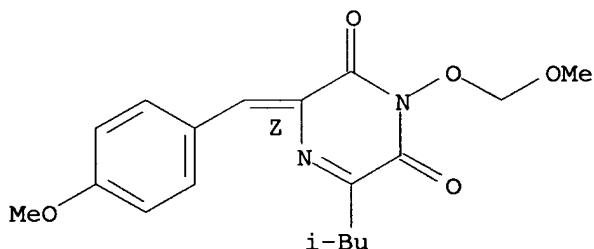
Double bond geometry as shown.



RN 179678-91-2 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-3-[(4-methoxyphenyl)methylene]-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

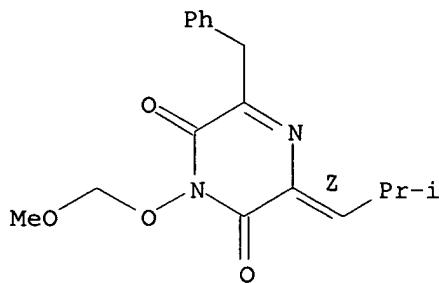
Double bond geometry as shown.



RN 179678-96-7 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-3-(2-methylpropylidene)-5-(phenylmethyl)-, (3Z)- (9CI) (CA INDEX NAME)

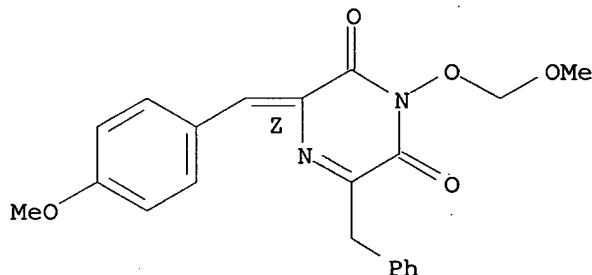
Double bond geometry as shown.



RN 179678-99-0 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-3-[(4-methoxyphenyl)methylene]-5-(phenylmethyl)-, (3Z)- (9CI) (CA INDEX NAME)

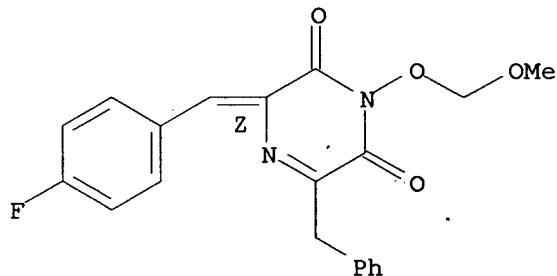
Double bond geometry as shown.



RN 179679-03-9 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 3-[(4-fluorophenyl)methylene]-1-(methoxymethoxy)-5-(phenylmethyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 162666-34-4P 179678-68-3P 179678-77-4P

179678-85-4P 179678-88-7P 179678-92-3P

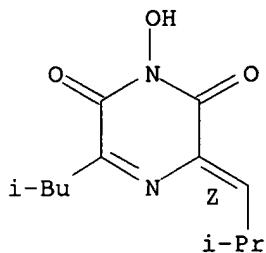
179679-00-6P 179679-04-0P 179679-05-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(hydroxypyrazinedione endonuclease inhibitors)

RN 162666-34-4 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-5-(2-methylpropyl)-3-(2-methylpropylidene)-, (3Z)- (9CI) (CA INDEX NAME)

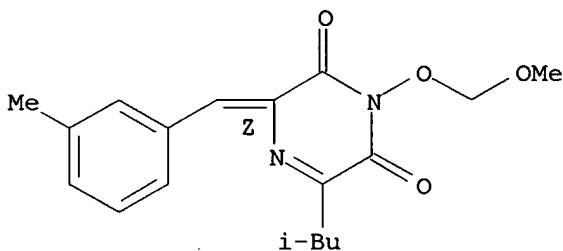
Double bond geometry as shown.



RN 179678-68-3 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-3-[(3-methylphenyl)methylene]-5-(2-methylpropyl)-, (Z)- (9CI) (CA INDEX NAME)

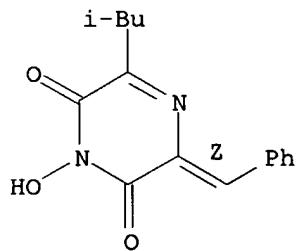
Double bond geometry as shown.



RN 179678-77-4 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-5-(2-methylpropyl)-3-(phenylmethylen)-, (3Z)- (9CI) (CA INDEX NAME)

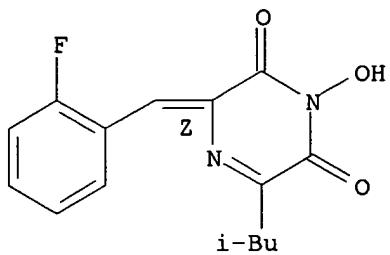
Double bond geometry as shown.



RN 179678-85-4 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 3-[(2-fluorophenyl)methylene]-1-hydroxy-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

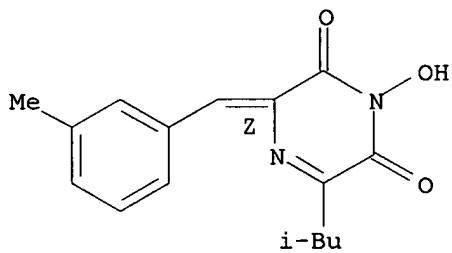
Double bond geometry as shown.



RN 179678-88-7 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-3-[(3-methylphenyl)methylene]-5-(2-methylpropyl)-, (Z)- (9CI) (CA INDEX NAME)

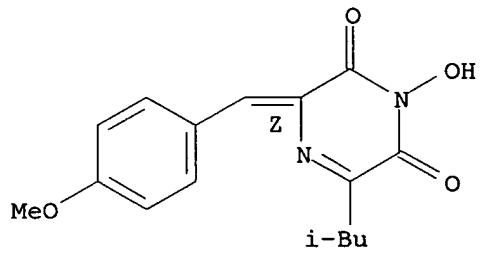
Double bond geometry as shown.



RN 179678-92-3 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-3-[(4-methoxyphenyl)methylene]-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

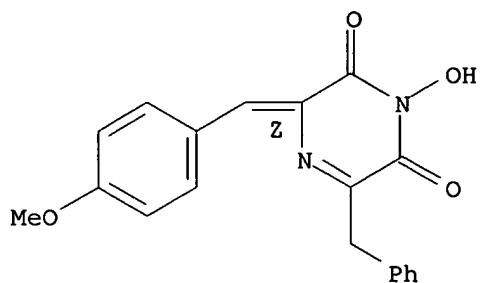
Double bond geometry as shown.



RN 179679-00-6 CAPLUS

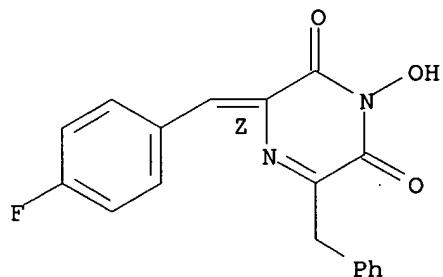
CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-3-[(4-methoxyphenyl)methylene]-5-(phenylmethyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



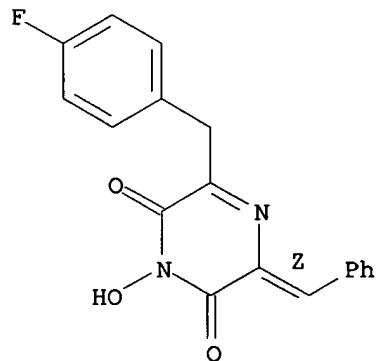
RN 179679-04-0 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 3-[(4-fluorophenyl)methylene]-1-hydroxy-5-(phenylmethyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 179679-05-1 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 5-[(4-fluorophenyl)methyl]-1-hydroxy-3-(phenylmethylene)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

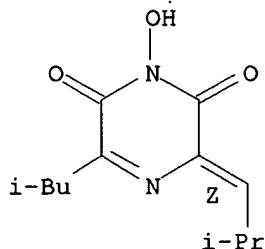


L4 ANSWER 14 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1996:274648 CAPLUS
DN 124:331772
TI A novel antiviral agent which inhibits the endonuclease of influenza viruses
AU Tomassini, J. E.; Davies, M. E.; Hastings, J. C.; Lingham, R.; Mojena, M.;
Raghoobar, S. L.; Singh, S. B.; Tkacz, J. S.; Goetz, M. A.
CS Merck Research Laboratories, West Point, PA, 19486-0004, USA

10/634,713

SO Antimicrobial Agents and Chemotherapy (1996), 40(5), 1189-1193
CODEN: AMACQ; ISSN: 0066-4804
PB American Society for Microbiology
DT Journal
LA English
IT 162666-34-4, Flutimide
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antiviral flutimide inhibits endonuclease of influenza viruses)
RN 162666-34-4 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-5-(2-methylpropyl)-3-(2-methylpropylidene)-, (3Z)- (9CI) (CA INDEX NAME)

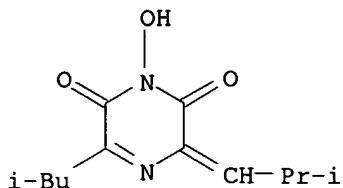
Double bond geometry as shown.



L4 ANSWER 15 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1995:503144 CAPLUS
DN 122:235152
TI Anti-viral agent
IN Goetz, Michael A.; Lingham, Russell B.; Polishook, Jon D.; Hensens, Otto D.; Tkacz, Jan S.; Zink, Deborah L.; Raghobar, Susan L.; Singh, Sheo Bux; Martin, Isabel; et al.
PA Merck and Co., Inc., USA
SO Brit. UK Pat. Appl., 22 pp.
CODEN: BAXXDU
DT Patent
LA English
FAN.CNT 1

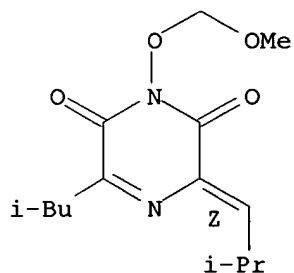
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--------------------|------|----------|-----------------|----------|
| PI GB 2280435 | A1 | 19950201 | GB 1994-14754 | 19940721 |
| PRAI US 1993-99087 | A | 19930729 | | |

IT 162436-71-7P
RL: BAC (Biological activity or effector, except adverse); BMF (Bioindustrial manufacture); BSU (Biological study, unclassified); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation) (inhibitor of influenza virus from Delitschia confertaspore)
RN 162436-71-7 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-5-(2-methylpropyl)-3-(2-methylpropylidene)- (9CI) (CA INDEX NAME)



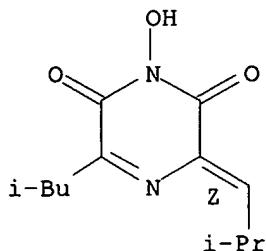
L4 ANSWER 16 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1995:476966 CAPLUS
 DN 122:290538
 TI Total synthesis of flutimide, a novel endonuclease inhibitor of influenza virus
 AU Singh, Sheo B.
 CS Merck Res. Lab., Rahway, NJ, 07065, USA
 SO Tetrahedron Letters (1995), 36(12), 2009-12
 CODEN: TELEAY; ISSN: 0040-4039
 PB Elsevier
 DT Journal
 LA English
 OS CASREACT 122:290538
 IT **162715-78-8P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (total synthesis of flutimide)
 RN 162715-78-8 CAPLUS
 CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-5-(2-methylpropyl)-3-(2-methylpropylidene)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



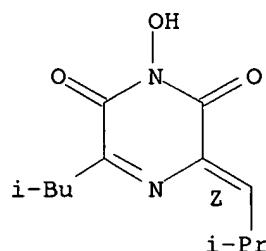
IT **162666-34-4P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (total synthesis of flutimide)
 RN 162666-34-4 CAPLUS
 CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-5-(2-methylpropyl)-3-(2-methylpropylidene)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L4 ANSWER 17 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1995:476965 CAPLUS
 DN 122:260673
 TI Isolation and structure of flutimide, a novel endonuclease inhibitor of influenza virus
 AU Hensens, Otto D.; Goetz, Michael A.; Liesch, Jerrold M.; Zink, Deborah L.; Raghoobar, Susan L.; Helms, Gregory L.; Singh, Sheo B.
 CS Merck Res. Lab., Rahway, NJ, 07065-0900, USA
 SO Tetrahedron Letters (1995), 36(12), 2005-8
 CODEN: TELEAY; ISSN: 0040-4039
 PB Elsevier
 DT Journal
 LA English
 IT **162666-34-4P**, Flutimide
 RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
 (flutimide, a novel influenza virus endonuclease inhibitor from Delitschia confertaspora)
 RN 162666-34-4 CAPLUS
 CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-5-(2-methylpropyl)-3-(2-methylpropylidene)-, (3Z)- (9CI) (CA INDEX NAME)

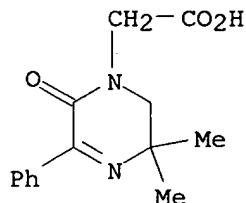
Double bond geometry as shown.



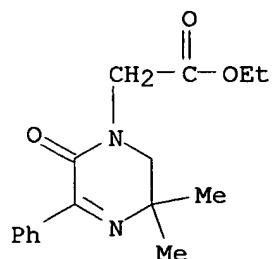
L4 ANSWER 18 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1992:129629 CAPLUS
 DN 116:129629
 TI Preparation of reduced size LH-RH analogs as LH-RH agonists and antagonists
 IN Haviv, Fortuna; Palabrica, Christopher A.; Greer, Jonathan; Fitzpatrick, Timothy D.
 PA Abbott Laboratories, USA
 SO Eur. Pat. Appl., 90 pp.
 CODEN: EPXXDW

DT Patent
 LA English
 FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|---|----------|
| PI | EP 417454 | A2 | 19910320 | EP 1990-114752 | 19900801 |
| | EP 417454 | A3 | 19910710 | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE | |
| | US 5140009 | A | 19920818 | US 1990-548511 | 19900710 |
| | CA 2022437 | AA | 19910208 | CA 1990-2022437 | 19900801 |
| | CA 2022437 | C | 20021022 | | |
| | NO 9003454 | A | 19910208 | NO 1990-3454 | 19900806 |
| | HU 55414 | A2 | 19910528 | HU 1990-4911 | 19900806 |
| | KR 161972 | B1 | 19981116 | KR 1990-11998 | 19900806 |
| | AU 9060285 | A1 | 19910207 | AU 1990-60285 | 19900807 |
| | JP 03081292 | A2 | 19910405 | JP 1990-209059 | 19900807 |
| | AU 9457894 | A1 | 19940519 | AU 1994-57894 | 19940317 |
| | AU 675274 | B2 | 19970130 | | |
| PRAI | US 1989-390269 | A | 19890807 | | |
| | US 1990-548511 | A | 19900710 | | |
| | US 1988-154682 | B2 | 19880210 | | |
| OS | MARPAT 116:129629 | | | | |
| IT | 110694-65-0P 137088-49-4P | | | | |
| | RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) | | | | |
| | (preparation and reaction of, in preparation LH-RH agonists and antagonists) | | | | |
| RN | 110694-65-0 CAPLUS | | | | |
| CN | 1(2H)-Pyrazineacetic acid, 5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl- (9CI) (CA INDEX NAME) | | | | |



RN 137088-49-4 CAPLUS
 CN 1(2H)-Pyrazineacetic acid, 5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



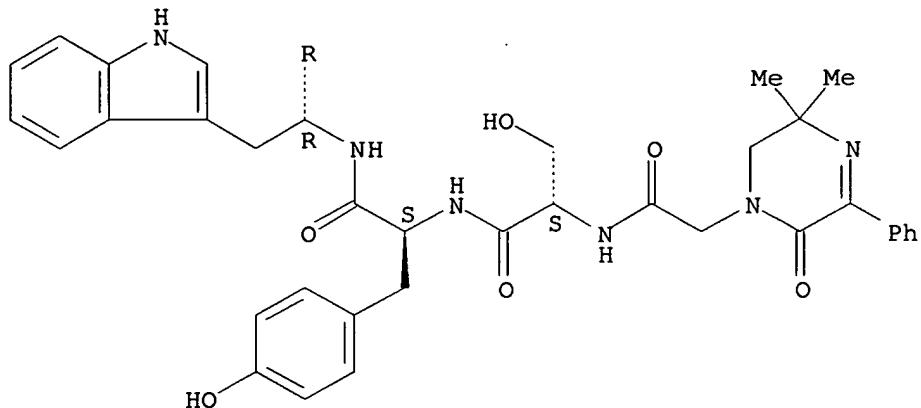
IT **125157-31-5P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction of, in preparation of LH-RH agonists and antagonists)

RN 125157-31-5 CAPLUS

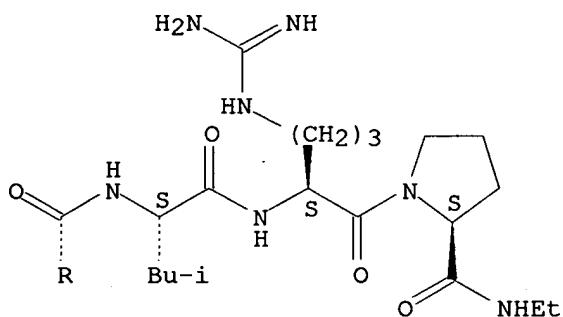
CN L-Prolinamide, N-[(5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl-1(2H)-pyrazinyl)acetyl]-L-seryl-L-tyrosyl-D-tryptophyl-L-leucyl-L-arginyl-N-ethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



IT 125157-54-2P 125157-55-3P

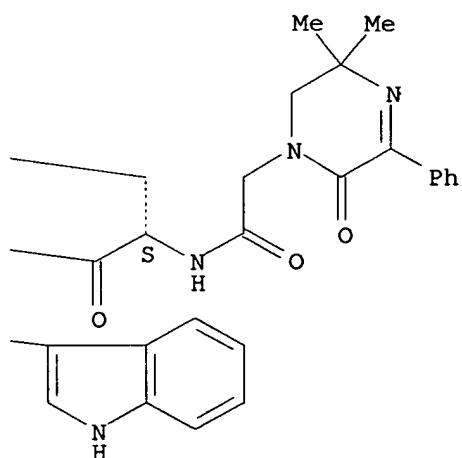
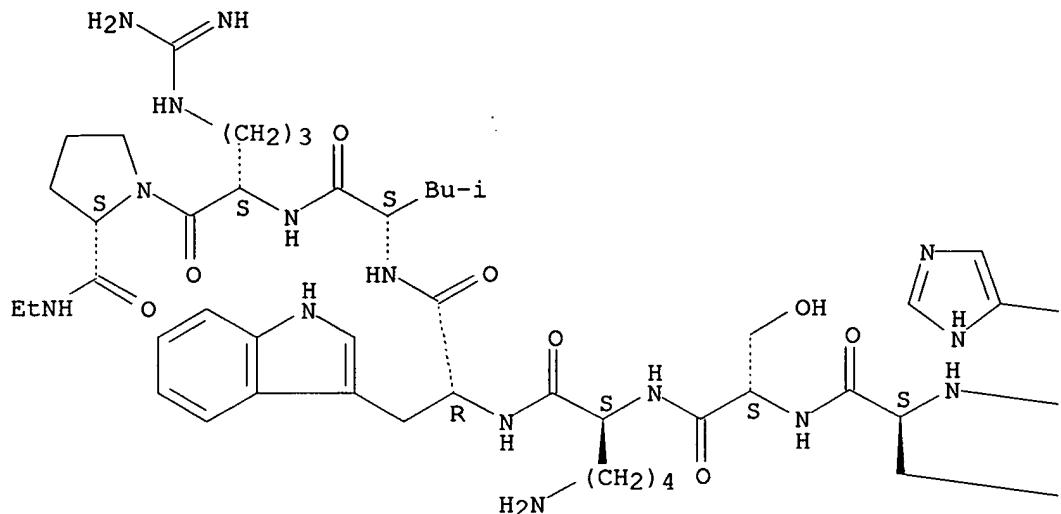
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of, as LH-RH agonist and antagonist)

RN 125157-54-2 CAPLUS

CN L-Prolinamide, N-[(5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl-1(2H)-pyrazinyl)acetyl]-L-histidyl-L-tryptophyl-L-seryl-L-lysyl-D-tryptophyl-L-leucyl-L-arginyl-N-ethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 125157-55-3 CAPLUS

CN L-Prolinamide, N-[(5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl-1(2H)-pyrazinyl)acetyl]-L-histidyl-L-tryptophyl-L-seryl-L-lysyl-D-tryptophyl-L-leucyl-L-arginyl-N-ethyl-, bis(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

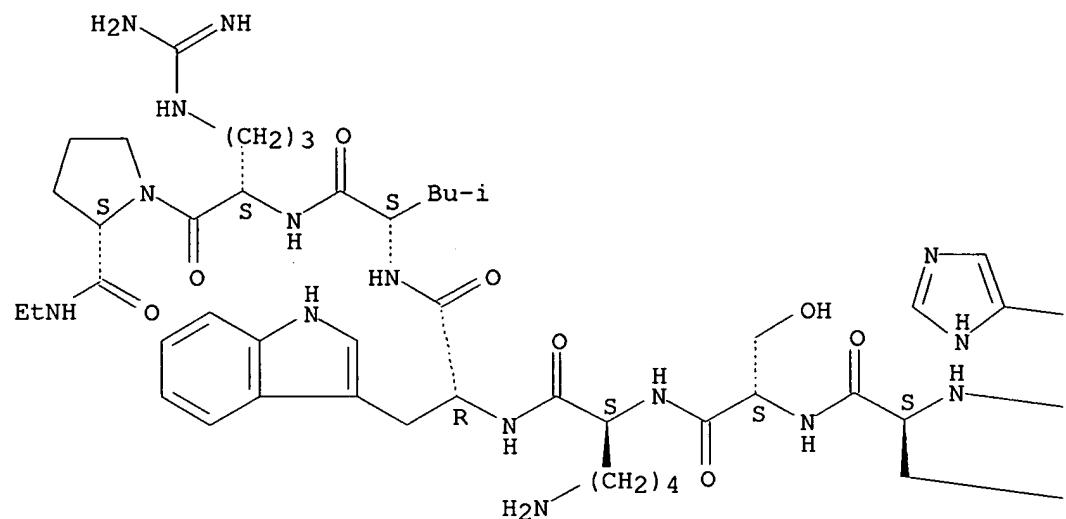
CM 1

CRN 125157-54-2

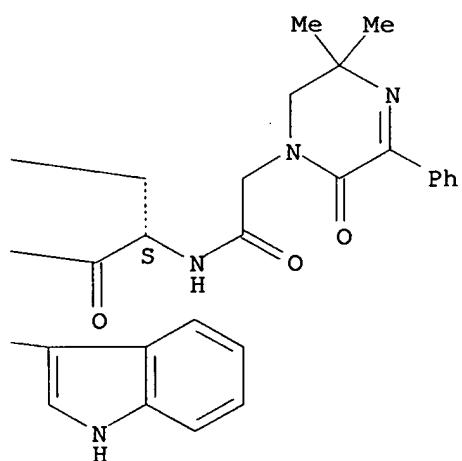
CMF C70 H95 N19 O11

Absolute stereochemistry.

PAGE 1-A

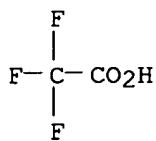


PAGE 1-B



CM 2

CRN 76-05-1
CMF C₂ H F₃ O₂



L4 ANSWER 19 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1990:77966 CAPLUS
 DN 112:77966
 TI Preparation of LHRH analogs
 IN Haviv, Fortuna; Palabrica, Christopher A.; Greer, Jonathan
 PA Abbott Laboratories, USA
 SO Eur. Pat. Appl., 48 pp.
 CODEN: EPXXDW

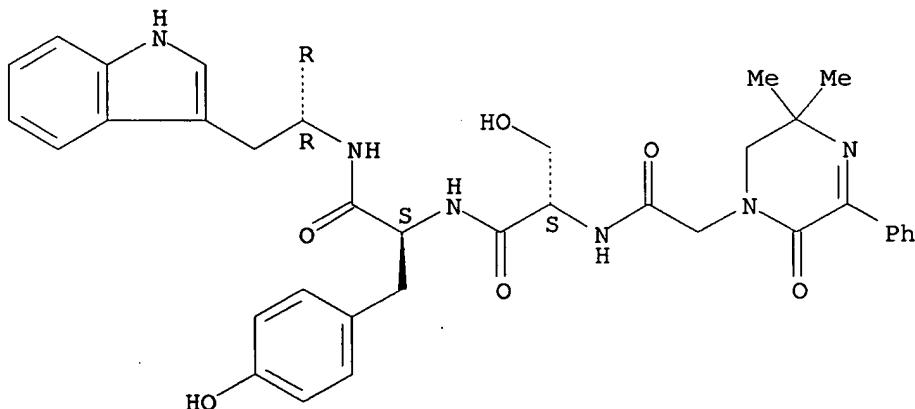
DT Patent
 LA English

FAN.CNT 2

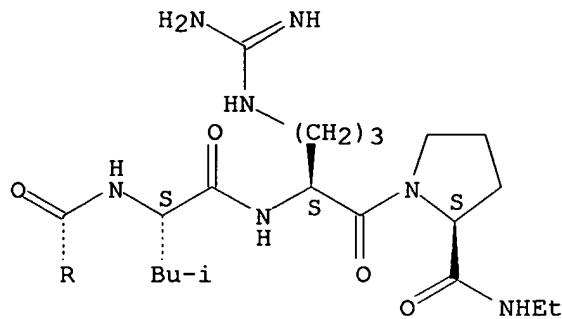
| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|--------|----------|-----------------|----------|
| PI | EP 328089 | A2 | 19890816 | EP 1989-102207 | 19890209 |
| | EP 328089 | A3 | 19901128 | | |
| | R: ES, GR | | | | |
| | WO 8907451 | A1 | 19890824 | WO 1989-US531 | 19890209 |
| | W: JP, US | | | | |
| | RW: BE, CH, DE, FR, GB, IT, NL, SE | | | | |
| | JP 03503165 | T2 | 19910718 | JP 1989-502779 | 19890209 |
| | EP 480918 | A1 | 19920422 | EP 1989-902991 | 19890209 |
| | R: BE, CH, DE, FR, GB, IT, LI, NL, SE | | | | |
| | CA 1339679 | A1 | 19980217 | CA 1989-591046 | 19890209 |
| PRAI | US 1988-154682 | A | 19880210 | | |
| | WO 1989-US531 | W | 19890209 | | |
| IT | 125157-31-5P 125157-55-3P | | | | |
| | RL: SPN (Synthetic preparation); PREP (Preparation) | | | | |
| | (preparation of, as LHRH analog) | | | | |
| RN | 125157-31-5 | CAPLUS | | | |
| CN | L-Prolinamide, N-[(5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl-1(2H)-pyrazinyl)acetyl]-L-seryl-L-tyrosyl-D-tryptophyl-L-leucyl-L-arginyl-N-ethyl- (9CI) (CA INDEX NAME) | | | | |

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



RN 125157-55-3 CAPLUS

CN L-Prolinamide, N-[(5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl-1(2H)-pyrazinyl)acetyl]-L-histidyl-L-tryptophyl-L-seryl-L-lysyl-D-tryptophyl-L-leucyl-L-arginyl-N-ethyl-, bis(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

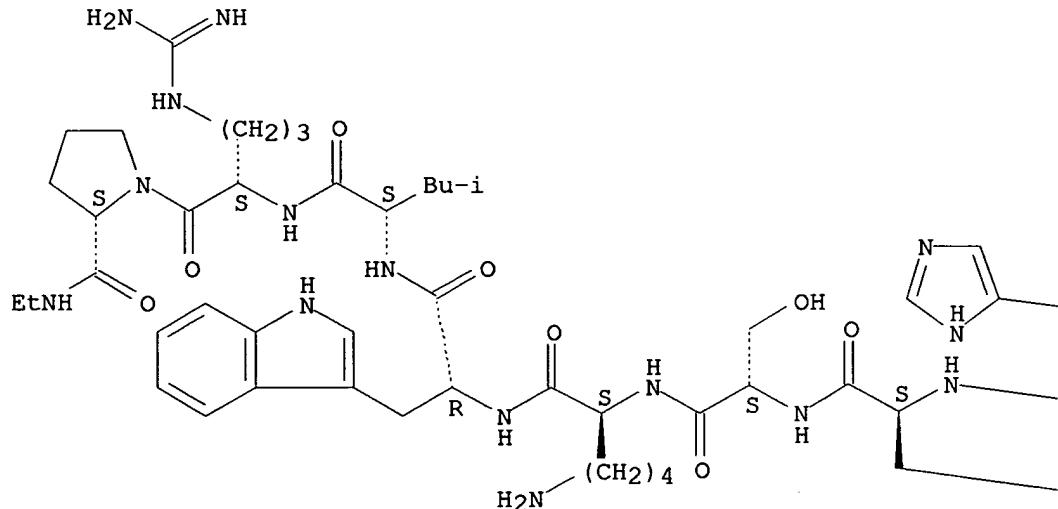
CM 1

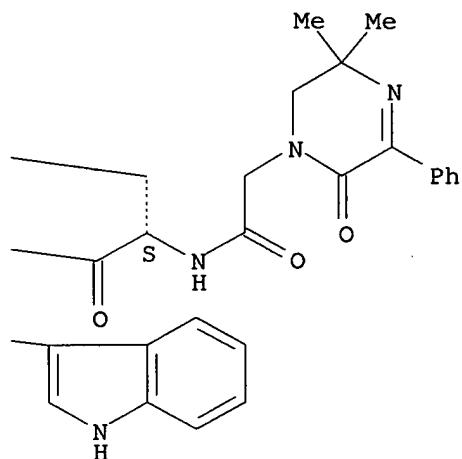
CRN 125157-54-2

CMF C70 H95 N19 O11

Absolute stereochemistry.

PAGE 1-A

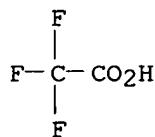




CM 2

CRN 76-05-1

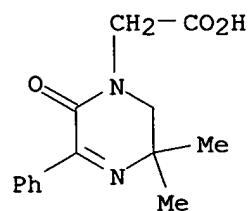
CMF C2 H F3 O2



IT 110694-65-0

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in preparation of LHRH analogs)

RN 110694-65-0 CAPLUS

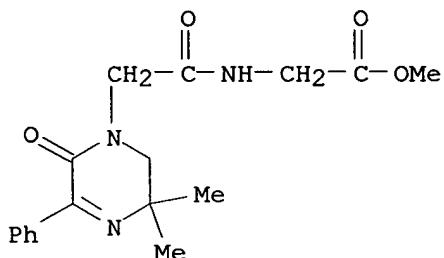
CN 1(2H)-Pyrazineacetic acid, 5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl- (9CI)
(CA INDEX NAME)

L4 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

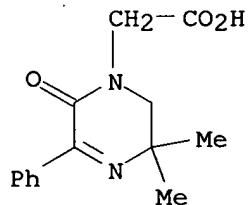
AN 1987:598900 CAPLUS

DN 107:198900

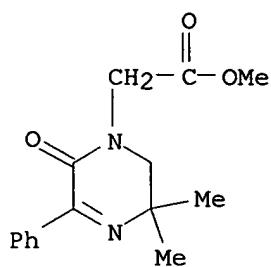
TI A heterocyclic analog of leucine-enkephalin
 AU Carr, Albert A.; Dudley, Mark W.; Huber, Edward W.; Kane, John M.; Miller,
 Francis P.
 CS Merrell Dow Res. Inst., Cincinnati, OH, 45215, USA
 SO Journal of Heterocyclic Chemistry (1987), 24(1), 239-41
 CODEN: JHTCAD; ISSN: 0022-152X
 DT Journal
 LA English
 OS CASREACT 107:198900
 IT **110694-66-1P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and amidation with ethylamine)
 RN 110694-66-1 CAPLUS
 CN Glycine, N-[5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl-1(2H)-
 pyrazinyl]acetyl]-, methyl ester (9CI) (CA INDEX NAME)



IT **110694-65-0P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and coupling with glycine Me ester and peptide amides)
 RN 110694-65-0 CAPLUS
 CN 1(2H)-Pyrazineacetic acid, 5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl- (9CI)
 (CA INDEX NAME)



IT **110694-63-8P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and saponification of)
 RN 110694-63-8 CAPLUS
 CN 1(2H)-Pyrazineacetic acid, 5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl-,
 methyl ester (9CI) (CA INDEX NAME)

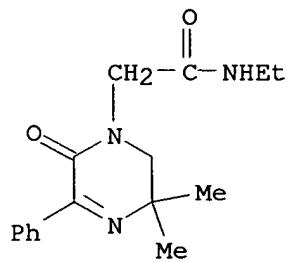


IT 110694-64-9P 110694-67-2P 110694-68-3P

110694-69-4P

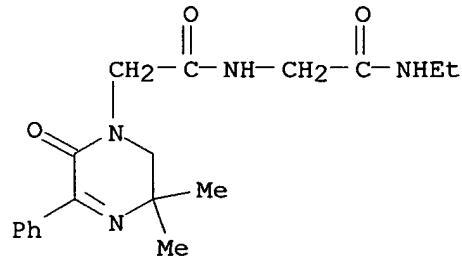
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 110694-64-9 CAPLUS

CN 1(2H)-Pyrazineacetamide, N-ethyl-5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl-
(9CI) (CA INDEX NAME)

RN 110694-67-2 CAPLUS

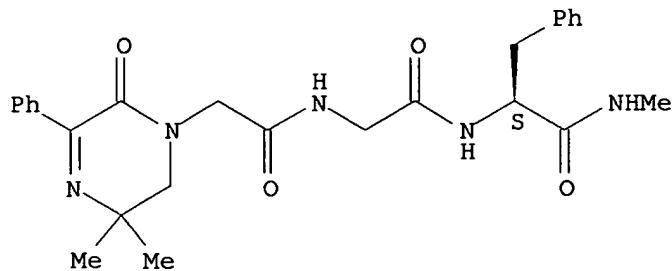
CN 1(2H)-Pyrazineacetamide, N-[2-(ethylamino)-2-oxoethyl]-5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl- (9CI) (CA INDEX NAME)



RN 110694-68-3 CAPLUS

CN L-phenylalaninamide, N-[(5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl-1(2H)-pyrazinyl)acetyl]glycyl-N-methyl- (9CI) (CA INDEX NAME)

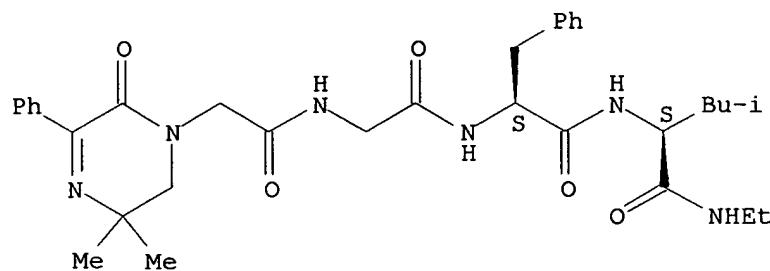
Absolute stereochemistry.



RN 110694-69-4 CAPLUS

CN L-Leucinamide, N-[(5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl-1(2H)-pyrazinyl)acetyl]glycyl-L-phenylalanyl-N-ethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 21 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1983:198275 CAPLUS

DN 98:198275

TI Piperazinones and their use

IN Beyerle, Rudi; Bender, Heinz; Schindler, Ursula; Nitz, Rolf Eberhard; Martorana, Piero Anton

PA Cassella A.-G., Fed. Rep. Ger.

SO Ger. Offen., 41 pp.

CODEN: GWXXBX

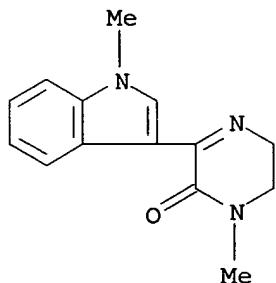
DT Patent

LA German

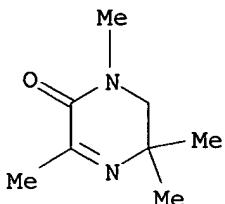
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|----------|
| PI | DE 3132882 | A1 | 19830303 | DE 1981-3132882 | 19810820 |
| | CA 1190227 | A1 | 19850709 | CA 1982-405637 | 19820621 |
| | EP 72932 | A2 | 19830302 | EP 1982-106766 | 19820727 |
| | EP 72932 | A3 | 19840321 | | |
| | EP 72932 | B1 | 19900117 | | |
| | R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE | | | | |
| | AT 49596 | E | 19900215 | AT 1982-106766 | 19820727 |
| | DK 8203423 | A | 19830221 | DK 1982-3423 | 19820730 |
| | DK 154765 | B | 19881219 | | |
| | DK 154765 | C | 19890516 | | |
| | FI 8202698 | A | 19830221 | FI 1982-2698 | 19820802 |
| | FI 76325 | B | 19880630 | | |
| | FI 76325 | C | 19881010 | | |
| | NO 8202643 | A | 19830221 | NO 1982-2643 | 19820802 |
| | DD 206991 | A5 | 19840215 | DD 1982-242277 | 19820805 |
| | IL 66566 | A1 | 19851231 | IL 1982-66566 | 19820818 |
| | PL 139405 | B1 | 19870131 | PL 1982-237952 | 19820818 |

| | | | | | | |
|------|--|----|----------|----|-------------|----------|
| AU | 8287422 | A1 | 19830224 | AU | 1982-87422 | 19820819 |
| AU | 556064 | B2 | 19861023 | | | |
| JP | 58039673 | A2 | 19830308 | JP | 1982-142738 | 19820819 |
| JP | 04065069 | B4 | 19921016 | | | |
| ES | 515120 | A1 | 19830501 | ES | 1982-515120 | 19820819 |
| ZA | 8206031 | A | 19830727 | ZA | 1982-6031 | 19820819 |
| HU | 29344 | O | 19840130 | HU | 1982-2696 | 19820819 |
| HU | 190696 | B | 19861028 | | | |
| RO | 85267 | P | 19840929 | RO | 1982-108482 | 19820819 |
| US | 4598079 | A | 19860701 | US | 1984-610921 | 19840515 |
| PRAI | DE 1981-3132882 | A | 19810820 | | | |
| | EP 1982-106766 | A | 19820727 | | | |
| | US 1982-408031 | A1 | 19820813 | | | |
| OS | CASREACT 98:198275 | | | | | |
| IT | 85607-67-6P | | | | | |
| | RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent) | | | | | |
| | (preparation and borohydride reduction of) | | | | | |
| RN | 85607-67-6 CAPLUS | | | | | |
| CN | 2(1H)-Pyrazinone, 5,6-dihydro-1-methyl-3-(1-methyl-1H-indol-3-yl)- (9CI)
(CA INDEX NAME) | | | | | |



| | |
|----|--|
| L4 | ANSWER 22 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN |
| AN | 1982:455776 CAPLUS |
| DN | 97:55776 |
| TI | A photochemical ring contraction of an imino lactam |
| AU | Kleyer, Don L.; Koch, Tad H. |
| CS | Dep. Chem., Univ. Colorado, Boulder, CO, 80309, USA |
| SO | Journal of Organic Chemistry (1982), 47(16), 3145-8 |
| | CODEN: JOCEAH; ISSN: 0022-3263 |
| DT | Journal |
| LA | English |
| OS | CASREACT 97:55776 |
| IT | 82043-99-0P |
| | RL: SPN (Synthetic preparation); PREP (Preparation) |
| | (preparation and photochem. contraction of) |
| RN | 82043-99-0 CAPLUS |
| CN | 2(1H)-Pyrazinone, 5,6-dihydro-1,3,5,5-tetramethyl- (9CI) (CA INDEX NAME) |



L4 ANSWER 23 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1976:180168 CAPLUS

DN 84:180168

TI Pyrazine chemistry. Part VIII. Oxidations involving 3-arylmethylenepiperazine-2,5-diones

AU Machin, Peter J.; Sammes, Peter G.
CS Chem. Dep., Imp. Coll., London, UK

SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1976), (6), 628-34
CODEN: JCPRB4; ISSN: 0300-922X

DT Journal

LA English

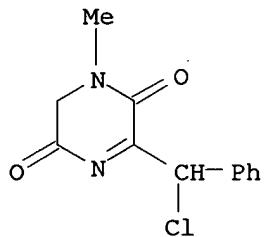
OS CASREACT 84:180168

IT 59552-64-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of)

RN 59552-64-6 CAPLUS

CN 2,5-Pyrazinedione, 3-(chlorophenylmethyl)-1,6-dihydro-1-methyl- (9CI) (CA INDEX NAME)

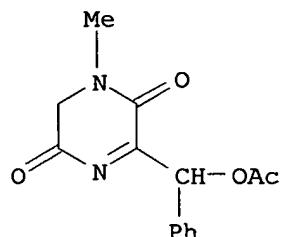


IT 59552-66-8P

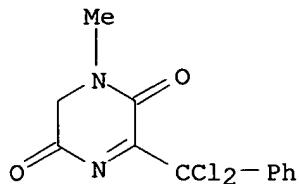
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and rearrangement of)

RN 59552-66-8 CAPLUS

CN 2,5-Pyrazinedione, 3-[(acetyloxy)phenylmethyl]-1,6-dihydro-1-methyl- (9CI) (CA INDEX NAME)

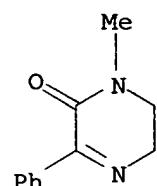


IT 59552-58-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 59552-58-8 CAPLUS
 CN 2,5-Pyrazinedione, 3-(dichlorophenylmethyl)-1,6-dihydro-1-methyl- (9CI)
 (CA INDEX NAME)



L4 ANSWER 24 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1963:33446 CAPLUS
 DN 58:33446
 OREF 58:5700g-h,5701a-e
 TI Substituted 5,6-dihydro-2(1H)-pyrazinones
 IN Carr, Albert A., Jr.; Tilford, Charles H.; Kuhn, William L.
 PA Richardson-Merrell, Inc.
 SO 3 pp.
 DT Patent
 LA Unavailable
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|----------------------|----------|
| PI | US 3056784
DE 1197089
FR M2016
GB 980387 | | 19621002 | US
DE
FR
GB | 19601003 |
| PRAI | US | | 19601003 | | |
| IT | 91350-29-7, 2(1H)-Pyrazinone, 5,6-dihydro-1-methyl-3-phenyl- | | | | |
| | (preparation of) | | | | |
| RN | 91350-29-7 CAPLUS | | | | |
| CN | 2(1H)-Pyrazinone, 5,6-dihydro-1-methyl-3-phenyl- (7CI, 9CI) (CA INDEX NAME) | | | | |



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 COST IN U.S. DOLLARS SINCE FILE TOTAL
 ENTRY SESSION
 FULL ESTIMATED COST 81.81 243.78